Type: Notes:

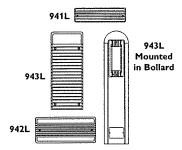


94 Line LED

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DEPARTMENT OF PLANNING & 92471L, 942L and 943L Step and Aisle Lights

The Philips Gardco 941L, 942L and 943L recessed aisle lights are architecturally styled luminaires precisely constructed of die cast aluminum, providing light with high performance, long life LED systems. Retrofit kits are also available, making it possible to update installations of classic 941, 942 and 943 Philips Gardco fluorescent and HID step lights to LED without the need to replace the back housing. A field adjustable junction box enhances design flexibility. Self-compensating silicone gasketing completely excludes moisture, insects and contaminants. A choice of three (3) architecturally designed faceplates allows for a variety of applications. The ribbed guard faceplate offers vandal protection for glass lenses.



		LED	LED			
PREFIX WAL	I TYPE FACEPLATE	WATTAGE	SELECTION	VOLTAGE	FINISH	OPTIONS
						-

Enter the order code into the appropriate box above. Omit WALL TYPE for 943L-B25 and 943L-B40. Note: Philips Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX

Complete Luminaires

941L¹ Horizontal 942L Horizontal

943L Vertical

943L-B25 943L Mounted in 25" Bollard **943L-B40** 943L Mounted in 40" Bollard

Retrofit Kits1

RK-941L^{1,2} Horizontal RK-942L² Horizontal RK-943L² Vertical

D Drywall

Not suitable for concrete pour applications. Also, if insulating material is present, it must be kept at least 3" away from luminaire. Type D units are thermally protected. Non-IC luminaire.

C Concrete Pour

Suitable for concrete pour applications only.

NOTE: WALL TYPE does not apply to 943L-B25 and 943L-B40. Omit WALL TYPE for 943L-B25 and 943L-B40.

FACEPLATES

LV Louver DG Diffuse Glass

RGD¹ Ribbed Guard with Diffuse Glass

1.941L and RK-941L are not available with the RGD faceplate.

Retrofit kits are available in Wall Type "C" only (Concrete Pour.) Retrofit
kits are not available for existing Wall Type "D" (Drywall) luminaires. The
step light portion of existing 943BL25 and 943BL40 units may be
replaced utilizing RK-943L retrofit kits.

Back housings for concrete pour applications (Type C) are available for pre-shipment. Contact factory for details.

LED WATTAGE with LUMEN DATA

		LED Current (mA)	Average System Watts ³	Faceplate Finish	Absolute Initial Luminaire Lumens ¹							
Order Code	Description				9	41		942			943	
					Faceplate		Faceplate		Faceplate			
					LV	DG	LV	DG	RGD	LV	DG	RGD
	20 watt, NW (4,000K),	350	20	BRP	78	699	153	807	272	152	738	274
	LED integral lens array.			WP	226	937	278	1,145	493	335	1,048	501
	31 watt, NW (4,000K), LED integral lens array.	530	31	BRP	111	927	207	1,037	380	209	1,421	372
				WP	319	1,321	377	1,474	670	454	1,001	679
40LA ⁵	40 watt, NW (4,000K), LED integral lens array.	700	40	BRP	See Note 5	See Note 5	250	1,382	467	256	1,251	465
				WP	See Note 5	See Note 5	472	1,960	836	568	1,775	849

- 3. System input wattage may vary based on input voltage, by up to +/- 10%, and based on manufacturer forward voltage, by up to +/- 8%.
- 4. Lumen values based on photometric tests performed in compliance with IESNA LM-79. Values are for luminaires with a white and bronze faceplate. Values will vary based on faceplate color chosen. Contact OutdoorLighting.
- 5. 941L is not available in 40LA (700mA) LED wattage. Lumen values shown are based on Bronze painted faceplates. Values will vary based on the faceplate color.



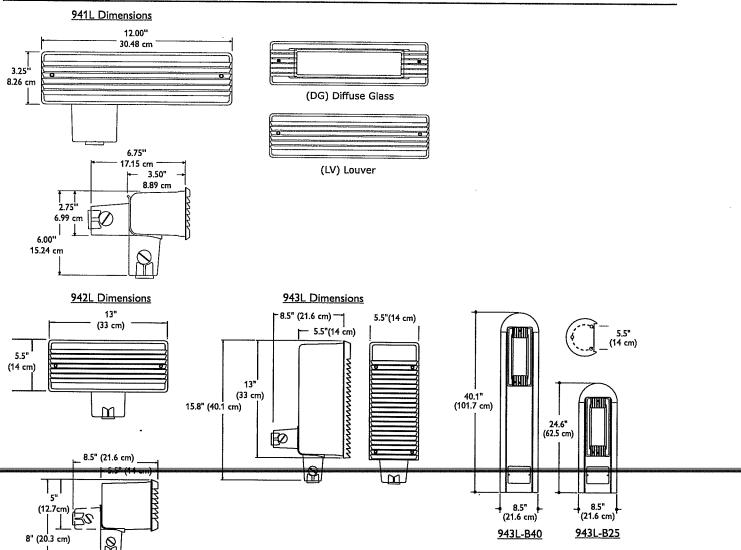


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941L, 942L and 943L Step and Aisle Lights

LED SELECTION		VOLTAGE	FINISH	1	OPTIONS		
cw	5,700°K , 75CRI	1204	BLP	Black Paint	F	Fusing (Provide specific input voltage.)	
NW	4,000°K , 70CRI	277'	BRP	Bronze Paint	TP	Tamper Resistant Screws	
ww	3,000°K , 80CRI	UNIV ⁷	WP	White Paint		•	
AM	Amber		NP	Natural Aluminum Paint		•	
		6. Wall Type D luminaires only.	ос	Optional Color Paint			
		7. UNIV means I 20V through 277V input. Not available on Wall Type D luminaires.	(Specify RAL designation. ex: OC-RA				
		<i></i>	sc	Special Color Paint			
				(Specify. Must supply color chip)			

DIMENSIONS



Page 3 of 3

APR 15 2015 941L, 942L and 943L Step and Aisle Lights

SPECIFICATIONS

DEPARTMENT OF

GENERAL: The Philips Gardco 941L, PLAN Windows and asked and architecturally styled luminaires precisely constructed of die cast aluminum, providing light with high performance, long life LED systems. A field adjustable junction box enhances design flexibility. Self-compensating silicone gasketing completely excludes moisture, insects and contaminants. A choice of three (3) architecturally designed faceplates allows for a variety of applications. The ribbed guard faceplate offers vandal protection for glass lenses.

RETROFIT KITS: Retrofit kits are also available, making it possible to update installations of classic 941, 942 and 943 Philips Gardco fluorescent and HID step lights to LED without the need to replace the back housing. Retrofit kits are available in Wall Type "C" only (Concrete Pour.) Retrofit kits are not available for existing Wall Type "D" (Drywall) luminaires. The step light portion of existing 943BL25 and 943BL40 units may be replaced utilizing RK-943L retrofit kits.

FACEPLATE: All faceplates are constructed of one piece die cast aluminum and are secured to the housing with two (2) recessed and captive hex head socket screws. Integral spring clips ensure positive grounding. Self-compensating single-piece silicone gasketing completely seals the luminaire and allows for varying wall thicknesses.

LOUVER: Die cast louvers span the entire length of the faceplate, providing for vandal resistance and glare control. Louver faceplate include diffuse glass behind the louvers to minimize apparent glare from the luminaire.

<u>DIFFUSE GLASS</u>: The faceplate includes a 3/16" thick diffuse white opal flat tempered glass lens. The lens is internally sealed and mounted and provides a soft, uniform glow.

RIBBED GUARD: 90° die cast louvers span the entire length of the faceplate over a diffuse glass lens. Not available in the 941L and RK-941L.

HOUSING: The housing is corrosion-resistant die cast aluminum.

J-BOX: The field convertible junction box is die cast aluminum. It is shipped factory-mounted to the back of housing. The box can be easily positioned on the bottom of the luminaire via two (2) phillips head screws. Each J-box includes three (3) threaded openings (one on each side and one on the bottom) that accommodate 3/4" conduit.

LED RELIABILITY:

PREDICTED LUMEN DEPRECIATION DATA						
Ambient Temperature °C	Driver mA	L ₇₀ Hours ⁹				
	350 mA	180,000				
25 °C	530 mA	115,000				
	700 mA	95,000				
	350 mA	175,000				
40 °C	530 mA	100,000				
	700 mA	90,000				

9 Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output. **THERMAL MANAGEMENT:** Philips Gardco 94 Line LED step and aisle lights include integral thermal control to provide the excellent thermal management so critical to long LED system life.

ELECTRICAL: Luminaires are equipped with an LED driver that accepts 120V through 277V, 50hz to 60hz, input (Wall Type C), or with specific 120V or 277V input voltages (Wall Type D). Driver output is based on the LED wattage selected. Component-to-component wiring within the luminaire will carry no more than 80% of rated current and is listed by UL for use at 600 VAC at 302°F / 150°C or higher. Plug disconnects are listed by UL for use at 600 VAC, 15A or higher. Power factor is not less than 90%. Luminaire consumes 0.0 watts in the off state. Surge protector standard. 10KA per AN SI/IEEE C62.41.2.

FINISH: Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BRP), black (BLP), white (WP), and natural aluminum (NP). Consult factory for specs on optional or custom colors.

LABELS: All luminaires bear UL or CUL (where applicable) Wet Location labels.

WARRANTY: Philips Gardco luminaires feature a 5 year limited warranty. Philips Gardco LED luminaires feature a 5 year limited warranty covering the LED arrays and LED drivers. See Warranty Information on www.sitelighting.com for complete details and exclusions.

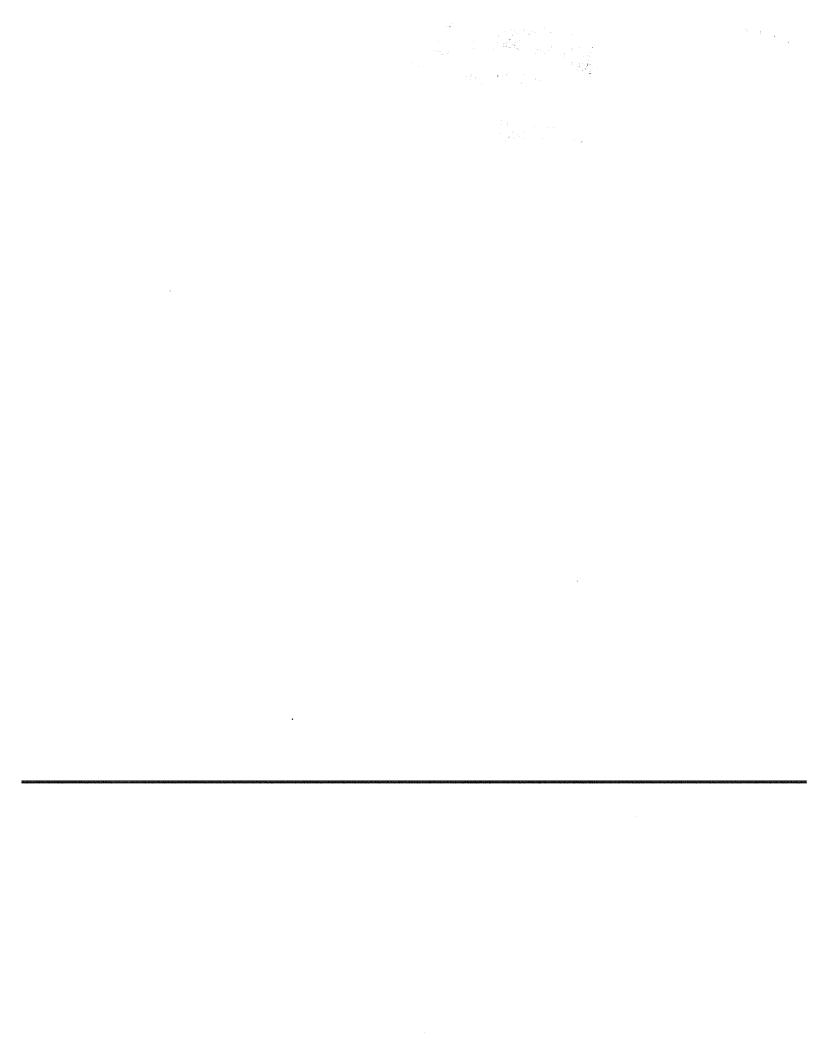


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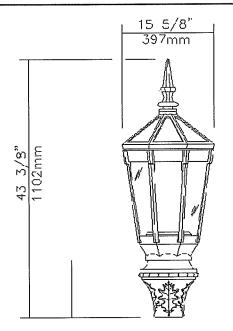
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UVM - NORTH FRESHMAN HOUSING





DEPARTMENT OF PLANNING & ZONING



Luminaire L70-40W30LED4K-PC-FC-LE3/LE5-VOLT-SFO-GN8TX-LMSXXXXXX

Description of Components:

Finial: Decorative cast 356 aluminum, mechanically assembled.

Hood: In an octogonal tapered shape, this hood is made of a one-piece cast 356 aluminum mechanically assembled to the luminaire.

Guard: In a octogonal tapered shape, this guard is a one-piece cast 356 aluminum mechanically assembled to the fitter.

Lens: (PC-FC), Made of frosted clear polycarbonate assembled on the guard with brackets.

Lamp: (Included), Composed of 30 high performance white LEDs, 40w lamp wattage. Color temperature of 4000 Kelvin nominal, 70 CRI. Operating lifespan, 70 000 hours after which the system emits 70% of its original lumen output, all of those parameters are tested for 100% of light engines. Use of a metal core board insures greater heat transfer and longer lifespan of the light engine

Optical System: (LE3), I.E.S. type III (asymmetrical) / (LE5), I.E.S. type V (symmetrical). Composed of high performance collimators, optimized with varying acrylic beam angles to achieve desired distribution. System is rated IP65. Performance shall be tested per LM63 and LM79 (IESNA) certifying its photometric performance. Street-side indicated.

Heat Sink: Made of cast aluminum optimising the LEDs efficiency and life. Product does not use any cooling device with moving parts (passive cooling device)

Driver: High power factor of 99%. Electronic driver, operating range 50-60 Hz. **Auto-adjusting to a voltage between 120 and 277 volt AC, Class II**, THD of 20%. Maximum ambient operating temperature from -40F(40C) to 130F(55C) degrees. Certified in compliance to CUL requirement. Weather tightness rating IP66. Assembled on a unitized removable tray with Tyco quick disconnect plug resisting to 105F(40.5C) degrees.

PHILIPS

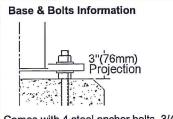
LUMEC

The current supplying the LEDs will be reduced by the driver if the internal temperature exceeds 203F(95C), as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction.

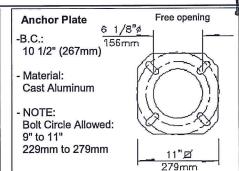
Surge Protector: LED Driver 3 poles surge Protectors that protect Line-Ground, Line-Neutral, and Neutral-Ground in accordance with IEEE / ANSI C62.41.2 guidelines.

Access-Mechanism: Two-integrated hinges on hood with stopper and a captive screw shall offer access to the inside of the luminaire and to the lamp. An embedded memory-retentive gasket shall ensure weatherproofing.

Fitter: (SFO), Cast 356 aluminum c/w 4 set screws 3/8-16 UNC. Slip-fits on a 4"(102mm) outside diameter x 4" (102mm) long tenon.



Comes with 4 steel anchor bolts, 3/4" X 17" + 3" Fully Galvanized, 8 nuts and 8 washers. Important: Do not obstruct space between anchor plate and concrete base.



APR 15 2015

DEPARTMENT OF PLANNING ROZONINGEN



Pole AM6F-10.08-PW-VPA-GN8TX-LMSXXXXXX

Description of Components:

Pole Shaft: Shall be made from a 4" (102mm) round extruded 6061-T6 aluminum tubing, having a 0.125" (3.2mm) wall thickness, welded to the pole base, c/w a wire retainer inside top of pole.

Joint Cover: Two-piece round joint cover made from cast 356 aluminum, mechanically fastened with stainless steel screws.

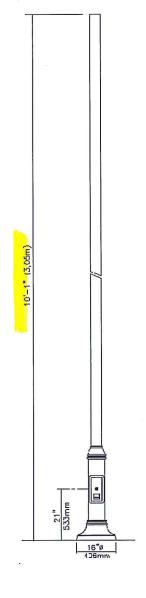
Pole Base: Shall be made from a 6 5/8" (168mm) round extruded 6061-T6 aluminum tubing base having a 0.135" (3.4mm) wall thickness, welded to both the bottom and top of the anchor plate.

Maintenance Opening: The pole shall have a 4 1/2" x 10" (114mm x 254mm) maintenance opening centered 21" (533mm) from the bottom of the anchor plate, complete with a weatherproof embossed aluminum cover and a copper ground lug.

Base Cover: Two piece round base cover made from cast 356 aluminum, mechanically fastened with stainless steel screws.

Pole Options: (PW) Pole is prewired (please refer to Wiring note). (VPA) Vandalproof screw(s), Allen type vandalproof screw(s), with pin in socket tamper resistant head.

IMPORTANT: Philips Lumec strongly recommends the installation of the complete lighting assembly with all of its accessories upon the anchoring of the pole. This will ensure that the structural integrity of the product is maintained throughout its lifetime.



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Miscellaneous

Description of Components:

Wiring: Prewired pole, gauge (#10) TEW wires, exceeding the maintenance opening.

All wire connection will be supplied with quick disconnect plugs.

Hardware: All exposed screws shall be stainless steel with Ceramic primer-seal basecoat to reduce seizing of the parts. All seals and sealing devices are made and/or lined with EPDM and/or silicone.

Finish: Color to be **dark forest green textured (GN8TX)**. Application of a polyester powder coat paint. (4 mils/100 microns). The chemical composition provides a highly durable UV and salt spray resistant finish in accordance to the ASTM-B117-73 standard and humidity proof in accordance to the ASTM-D2247-68 standard.

Substitutions: To enable all tenders to be judged equitably, they shall be based on the specified products in this document and shown on the drawings.

- a) The proposal for any substitute products must be attached to their tender separately, identifying the substitute product by its trade name along with any savings it may represent.
- b) Following the opening of the tender, only those substitutes proposed by the lowest bidder of the specified products, will be considered.
- c) All substitute approval requests shall be accompanied by manufacturing drawings, complete with photometric data produced by an independent laboratory.
- d) Each substitute sample must be presented to the owner/consultant within seven days following the opening of tenders. The sample must be completely operational. After this time, the bidder will be required to supply the original specified product.
- e) The owner/consultant reserves the right to grant or deny approval for proposed substitutions without prejudice to his rights and his decision shall be final.

The above conditions apply to this section independently of any other clauses on the subject found in this document.





DEPARTMENT OF Lamp Technical Information PLANNING & ZONING Wattage **Max System** Rated life Color Initial Lamps # LED Manufacturer CRI AC currant: LED mA hrs. 1 Lumens System ³ Temperature ² Lamp 120v 40W30LED4K 70,000 70 4000K 3000 40W 45W 0.47A 400mA 40W49LED4K 70,000 70 4000K 3800 47W 0.47A 285mA 42W Philips Lumileds Rebel 60W30LED4K 70,000 70 4000K 4000 60W 68W 0.7A 600mA or Cree XP 65W49LED4K 70,000 70 4000K 5200 65W 72W 0.7A 428mA 90W49LED4K 70,000 7Ó 571mA 4000K 90W 102W 1A 6300 105W79LED4K 70,000 70 4000K 8200 105W 119W 1.17A 428mA Philips Lumileds Rebel 130W98LED4K 70,000 70 4000K 10400 130W 147W 1.4A 428mA 150W79LED4K 70,000 or Cree XP 70 4000K 10300 150W 170W 1.7A 600mA 180W98LED4K 204W 70,000 70 4000K 12600 180W 2A 571mA

- How to calculate the lamp lumen per watt ratio: In the above table and according to your choice of lamp, please note the initial lamp lumen value and divide this value by the lamp wattage. (Example: 40W30LED4K: 3000/40=75)

- How to calculate the system lumen per watt ratio (LER): First, visit our website at www.lumec.com and download the IES file (photometric file) of your selected Philips Lumec product. Then, use a photometric software to get the absolute system lumens value and divide by the system wattage. (Example: 40W30LED4K: Absolute system lumens / 45W = LER)

Rated life represents the time it takes for the LED system to reach 70% of initial lumen output.

On average.

System wattage includes the lamp and the LED driver.

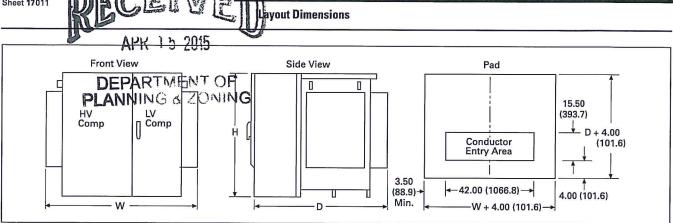


Figure 17.0-9. Pad-Mounted Transformer (75–2500 kVA)—Dimensions in Inches (mm)

Table 17.0-9. Standard Unit, Oil-Immersed 65°C Rise, 75-2500 kVA-Dimensions in Inches (mm)

kVA	Transformer Dia	mensions	Approximate	Gallons (Liters) of				
	Width (W)	Depth (D)	Height (H)	Weight Lbs (kg)	Oil (Approximate)			
HV: 5–15 kV Radial Feed, Livefront								
75	56.00 (1422.4)	50.00 (1270.0)	56.00 (1422.4)	2280 (1034.2)	115 (435.3)			
112	56.00 (1422.4)	50.00 (1270.0)	56.00 (1422.4)	2400 (1088.6)	115 (435.3)			
150	56.00 (1422.4)	50.00 (1270.0)	56.00 (1422.4)	2700 (1224.7)	125 (473.2)			
225	56.00 (1422.4)	54.00 (1371.6)	58.00 (1473.2)	3350 (1519.5)	150 (567.8)			
300	60.00 (1524.0)	58.00 (1473.2)	58.00 (1473.2)	3650 (1655.6)	165 (624.6)			
500	66.00 (1676.4)	62.00 (1574.8)	60.00 (1524.0)	5200 (2358.7)	200 (757.1)			
750	81.00 (2057.4)	64.00 (1625.6)	68.00 (1727.2)	7200 (3265.9)	360 (1362.7)			
1000	84.00 (2133.6)	66.00 (1676.4)	68.00 (1727.2)	9000 (4082.3)	400 (1514.2)			
1500	86.00 (2184.4)	72.00 (1828.8)	68.00 (1727.2)	10,250 (4649.3)	440 (1665.6)			
2000	92.00 (2336.8)	80.00 (2032.0)	72.00 (1828.8)	13,400 (6078.1)	550 (2082.0)			
2500	98.00 (2489.2)	82.00 (2082.8)	72.00 (1828.8)	15,000 (6803.9)	570 (2157.7)			
3000	102.00 (2590.8)	83.00 (2108.2)	77.00 (1955.8)	16,500 (7484.3)	625 (2365.9)			
HV: 5–15 kV I	Radial Feed, Deadf	ront						
75	62.00 (1574.8)	50.00 (1270.0)	56.00 (1422.4)	2350 (1065.9)	115 (435.3)			
112	62.00 (1574.8)	50.00 (1270.0)	56.00 (1422.4)	2450 (1111.3)	115 (435.3)			
150	62.00 (1574.8)	50.00 (1270.0)	56.00 (1422.4)	2700 (1224.7)	125 (473.2)			
225	62.00 (1574.8)	54.00 (1371.6)	58.00 (1473.2)	3400 (1542.2)	150 (567.8)			
300	62.00 (1574.8)	58.00 (1473.2)	58.00 (1473.2)	3700 (1678.3)	165 (624.6)			
500	66.00 (1676.4)	62.00 (1574.8)	60.00 (1524.0)	5400 (2449.4)	200 (757.1)			
750	81.00 (2057.4)	64.00 (1625.6)	68.00 (1727.2)	7200 (3265.9)	360 (1362.7)			
1000	84.00 (2133.6)	66.00 (1676.4)	68.00 (1727.2)	9000 (4082.3)	400 (1514.2)			
1500	86.00 (2184.4)	72.00 (1828.8)	68.00 (1727.2)	10,250 (4649.3)	440 (1665.6)			
2000	92.00 (2336.8)	80.00 (2032.0)	72.00 (1828.8)	13,400 (6078.1)	550 (2082.0)			
2500	98.00 (2489.2)	82.00 (2082.8)	72.00 (1828.8)	15,000 (6803.9)	570 (2157.7)			
3000	102.00 (2590.8)	83.00 (2108.2)	77.00 (1955.8)	16,500 (7484.3)	625 (2365.9)			
HV: 5–15 kV L	.oop Feed, Livefron	t						
75	65.00 (1651.0)	50.00 (1270.0)	56.00 (1422.4)	2400 (1088.6)	115 (435.3)			
112	65.00 (1651.0)	50.00 (1270.0)	56.00 (1422.4)	2500 (1134.0)	115 (435.3)			
150	65.00 (1651.0)	50.00 (1270.0)	56.00 (1422.4)	2800 (1270.1)	125 (473.2)			
225	65.00 (1651.0)	54.00 (1371.6)	58.00 (1473.2)	3500 (1587.6)	150 (567.8)			
300	66.00 (1676.4)	58.00 (1473.2)	58.00 (1473.2)	3800 (1723.7)	165 (624.6)			
500	68.00 (1727.2)	62.00 (1574.8)	60.00 (1524.0)	5600 (2540.1)	200 (757.1)			
750	82.00 (2082.8)	64.00 (1625.6)	68.00 (1727.2)	7200 (3265.9)	360 (1362.7)			
1000	86.00 (2184.4)	66.00 (1676.4)	68.00 (1727.2)	9000 (4082.3)	400 (1514.2)			
1500	88.00 (2235.2)	72.00 (1828.8)	68.00 (1727.2)	10,250 (4649.3)	440 (1665.6)			
2000	92.00 (2336.8)	80.00 (2032.0)	72.00 (1828.8)	13,400 (6078.1)	550 (2082.0)			
2500	98.00 (2489.2)	82.00 (2082.8)	72.00 (1828.8)	15,000 (6803.9)	570 (2157.7)			
3000	102.00 (2590.8)	83.00 (2108.2)	77.00 (1955.8)	16,500 (7484.3)	625 (2365.9)			

Dimensional Variations

Height Variations

- Add 3.00 inches (76.2 mm) to the height when using bayonet fusing on all kVA ratings.
- Add 7.00 inches (177.8 mm) to the height when using dry well canister fusing on 75–500 kVA ratings.
- Add 8.00 inches (203.2 mm) to the height when using dry well canister fusing on 750 kVA rating only.

Depth Variations

- 4. Canister fuses require deeper tanks on some transformer sizes.
 - Add 4.00 inches (101.6 mm) to the depth of kVA ratings 75, 150 and 225.
 - b. Add 2.00 inches (50.8 mm) to the depth of kVA rating 500.
- Less flammable natural esther fluid requires deeper tanks on some transformer ratings.
 - Add 2.00 inches (50.8 mm) to the depth of kVA ratings 75–1500. Add 8.00 inches (203.2 mm) to the depth of kVA ratings 2000 and 2500.

Dimensions are approximate not for construction.

